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DPA Pump Installation Instructions

These are basic instruction for the timing and installation of the Delphi (C.A.V., Lucas) DPA model pump. Since the procedure may vary depending on the engine please refer to the correct engine service manual for your engine. In an emergency however, if the timing marks are clearly marked on the engine and pump mounting flange, most injection pumps can be installed as follows.

INSTALLATION

1. Turn the pump drive shaft so that the master spline is in alignment with the master spline on the engine.
2. Insert the drive shaft into the engine coupling as the pump is pushed onto the mounting studs
3. Push the pump snugly against the mounting face and secure lightly with the three holding nuts.
4. Rotate the injection pump on the mounting studs until the timing mark scribed on the pump mounting flange is aligned with the timing mark on the engine.
5. Tighten the retaining nuts
6. Connect and tighten the return fuel pipe.
7. Connect and tighten the fuel inlet pipe.
8. Connect the shut off lever or the shut off solenoid wire
9. Connect the throttle lever and ensure that the lever has full travel when the throttle is operated. Set the vehicle throttle linkage stops so that pressure from the linkage is not transmitted to the maximum speed stop on the injection pump.

Note: Do not attempt to start the engine until the pump has been primed with fuel.

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PRIMING and STARTING

1. Use the primer pump to prime the fuel filter. Caution: Do not fill the fuel filter with fuel, because the filter will remove contamination that you can't see. Slacken the filter outlet, or the fuel pump inlet, whichever one is higher. Allow fuel to flow until it is free from air. Tighten connections
2. Loosen the head vent screw on the injection pump and operate the primer until fuel free flows from the vent. Then tighten the vent screw.

3. Open the throttle lever and ensure the shutoff is in the run position. Loosen any two high pressure lines turn the engine over until fuel free from air flows from the lines. Tighten the injection lines.
4. Start the engine
5. With the engine running at idle speed, loosen the governor vent screw. When fuel free from air flows from the vent, tighten the vent screw.

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